

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  BA9323PCT	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/US2004/042302	International filing date (day/month/year)  16/12/2004	(Earliest) Priority Date (day/month/year)  19/12/2003
Applicant  E. I. DUPONT DE NEMOURS AND COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/042302

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D239/42 A01N43/54

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MIDDLETON W J ET AL: "Cyanocarbon Chemistry. IX. Heterocyclic Compounds from Dicyanoketene acetals" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 80, 5 June 1958 (1958-06-05), pages 2829-2832, XP002329235 compound XII	1
X	EP 0 136 976 A (CIBA-GEIGY AG) 10 April 1985 (1985-04-10) cited in the application page 1, line 1; claim 21; figure 2	1-14
A	US 4 014 677 A (FISCHER ET AL) 29 March 1977 (1977-03-29) column 1, line 19 - column 2, line 15	1-14



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

24 May 2005

Date of mailing of the international search report

08/06/2005

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/042302

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0136976	A	10-04-1985	EP	0136976 A2	10-04-1985
			JP	60072808 A	24-04-1985
US 4014677	A	29-03-1977	CH	595061 A5	31-01-1978
			AT	344750 B	10-08-1978
			AT	355675 A	15-12-1977
			AU	498132 B2	15-02-1979
			AU	8105575 A	18-11-1976
			BE	828869 A1	10-11-1975
			CA	1042890 A1	21-11-1978
			DE	2520381 A1	20-11-1975
			ES	437518 A1	01-01-1977
			FR	2270249 A1	05-12-1975
			GB	1501935 A	22-02-1978
			IL	47256 A	31-01-1979
			IT	1044287 B	20-03-1980
			JP	50155624 A	16-12-1975
			NL	7505503 A	12-11-1975
			ZA	7502999 A	28-04-1976